

IN THE CLAIMS

Please amend the claims as indicated by the amended claim set below. The status identifier "Original" refers to the Response to Written Opinion filed in the international stage file.

1. (Original) A method of collecting vapors from an inspected item, comprising:  
providing an item for inspection;  
forming a chamber around the inspected item, with a volume determined responsive to the inspected item;  
applying one or more vapor release measures to the dimensions of the inspected item;  
removing gas samples from the formed chamber; and  
analyzing the removed gas samples for traces of one or more chemicals.
2. (Original) A method according to claim 1, wherein providing the item for inspection comprises placing the item in a chamber and wherein forming the chamber around the inspected item comprises reducing the volume of the chamber.
3. (Original) A method according to claim 2, wherein reducing the volume of the chamber comprises pumping air out of the chamber.
4. (Original) A method according to claim 2, wherein pumping air out of the chamber comprises pumping using a same blower as used for removing gas samples from the inspected items.
5. (Original) A method according to claim 4, wherein the chamber is at least partially defined by a flexible mantle, which conforms to the dimensions of the inspected items when the air is pumped out of the chamber.
6. (Original) A method according to claim 5, wherein after the air is pumped out of the chamber the mantle is spaced from the objects by legs protruding from the mantle.
7. (Original) A method according to claim 2, wherein reducing the volume of the chamber comprises moving one or more walls of the chamber toward the inspected item.

8. (Original) A method according to claim 1, wherein forming the chamber comprises forming an air tight chamber.
9. (Original) A method according to claim 8, wherein forming the chamber comprises forming a chamber having a pressure lower than its surrounding.
10. (Original) A method according to claim 1, wherein providing the item for inspection comprises placing the inspected item on a flexible mantle and wherein forming a chamber around the inspected item comprises connecting portions of the mantle on different sides of the inspected item.
11. (Original) A method according to claim 1, wherein forming the chamber around the inspected item comprises connecting a plurality of walls around the provided item, so as to form the inspected chamber.
12. (Currently Amended) A method according to claim 1, wherein forming the chamber around the inspected item comprises ~~raping~~ wrapping a single mantle around the inspected item.
13. (Original) A method according to claim 1, wherein forming the chamber comprises forming a chamber having a volume of 20% or less larger than the volume of the inspected item.
14. (Original) A method according to claim 1, wherein applying one or more vapor release measures to the inspected item comprises applying one or more gas jets to the inspected item.
15. (Original) A method according to claim 14, wherein applying the one or more gas jets and removing the gas samples are controlled together so that the pressure of the chamber follows a desired course.

16. (Original) A method according to claim 15, wherein the chamber formed around the inspected item is located within an external chamber and wherein the control of the applied gas jets and the removing of the samples is performed such that relative pressure between the chamber formed around the inspected item and the external chamber is substantially constant.
17. (Original) A method according to claim 14, wherein forming the chamber around the inspected item comprises forming the chamber such that at least one wall of the chamber, carrying an orifice applying a gas jet at the inspected item is within a predetermined distance range from the inspected item.
18. (Original) A method according to claim 14, wherein applying one or more air jets at the inspected item comprises applying hot air jets at the item.
19. (Original) A method according to claim 14, wherein applying one or more air jets at the inspected item comprises applying intermittent air jets at the item.
20. (Original) A method according to claim 1, wherein removing gas samples from the formed chamber comprises exhausting through one or more orifices in at least one wall of the chamber.
21. (Original) A method according to claim 1, wherein applying one or more vapor release measures to the inspected item comprises vibrating the inspected item.
22. (Original) A method according to claim 1, wherein applying one or more vapor release measures to the inspected item comprises applying shock waves.
23. (Original) A method according to claim 1, wherein removing gas samples comprises removing air.
24. (Original) A method according to claim 1, wherein removing gas samples comprises removing a gas other than air.

25. (Currently Amended) A vapor collection system, comprising:  
a base on which inspected items are placed;  
one or more wall portions adapted to form a chamber around items placed on the base;  
a controller adapted to adjust the volume of the chamber responsive to the size of the inspected items placed on the base;  
at least one conduit adapted to remove gas samples from the chamber; and  
an analysis unit adapted to determine whether the gas samples include one or more chemicals.
26. (Original) A system according to claim 25, wherein the base and one or more wall portions comprise a single flexible mantle piece.
27. (Original) A system according to claim 25, wherein the one or more wall portions comprise one or more flexible mantle pieces.
28. (Currently Amended) A system according to claim 25, wherein at least a portion of the at least one conduit adapted to remove gas samples is coupled to the one or more flexible mantle pieces.
29. (Currently Amended) A system according to claim 28, wherein at least a portion of the at least one conduit adapted to remove gas samples is embedded within the one or more flexible mantle pieces.
30. (Original) A system according to claim 25, comprising one or more legs protruding from the one or more flexible mantle pieces, which prevent the flexible mantle from closely contacting the inspected items.
31. (Original) A system according to claim 25, wherein the base participates in defining the chamber with the one or more walls.
32. (Original) A system according to claim 25, wherein the base does not participate in defining the chamber with the one or more walls.

33. (Original) A system according to claim 25, wherein the at least one tubes are embedded within the one or more walls.
34. (Original) A system according to claim 25, comprising a blower adapted to exhaust gas out of the chamber so as to adjust the volume of the chamber.
35. (Original) A system according to claim 34, wherein the blower is adapted to remove gas samples from the chamber through the at least one tube.
36. (Original) A system according to claim 34, comprising a compressor adapted to inject gas into the chamber.
37. (Original) A system according to claim 36, comprising a controller adapted to control the compressor and the blower such that during a sample collection period of the system, the relative gas pressure between the chamber and the environment around the chamber is substantially constant, while the blower provides gas samples from the chamber to the analysis unit.
38. (Original) A system according to claim 25, wherein the controller is adapted to keep a pressure difference between the inside and outside of the chamber substantially constant, from when the one or more wall portions form a chamber around the items until the analysis unit determines whether the gas samples include one or more chemicals for the inspected items.
39. (Original) A system according to claim 25, wherein the controller is adapted to reduce the volume of the chamber responsive to the size of the inspected items placed on the base.
40. (Original) A system according to claim 39, wherein the controller is adapted to adjust the volume of the chamber by removing a gas from the chamber.

41. (Original) A system according to claim 25, comprising a vapor release inducing unit and wherein the controller is adapted to adjust the volume of the chamber before the vapor release inducing unit is operated on the inspected items.

42. (Original) A system according to claim 25, wherein the controller is adapted to adjust the volume of the chamber to a size not greater than more than 20% of the inspected items.

43-82. (Cancelled)

83. (Original) A method of collecting vapors from an inspected item, comprising:  
placing an item for inspection within a chamber;  
reducing the size of the chamber after the inspected item is placed in the chamber;  
applying one or more vapor release measures to the dimensions of the inspected item,  
after the size of the chamber is reduced;  
removing gas samples from the formed chamber; and  
analyzing the removed gas samples for traces of one or more chemicals.

84. (Original) A method according to claim 83, wherein reducing the volume of the chamber comprises pumping air out of the chamber.

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